

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-003037**Date Inspected:** 09-Dec-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Changxing Dao, Shanghai**Quality Control Contact:** Don Walton**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG, Sub-Assemblies (OBG) and Office.**Bid Item:** 77, 78, 79**Lot No:****Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

**OBG**

11CE/11DE and 11CW/11DW Internal Weld Seam Surface, NOI Number 5265: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on 11CE/11DE and 11CW/11DW Internal Weld Seam Surface. Test results recorded x1 soluble salts reading of 41.87 (µs/cm) and x3 surface profile readings in the range of 64 to 82 µm. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to insufficient surface preparation (additional blasting required).

12CE OBG Internal Surfaces, NOI Number 5292: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12CE OBG Internal Surfaces for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-submit for inspection due to work in progress (12CE OBG Internal Surfaces not ready for inspection).

12CE OBG Internal Surfaces, NOI Number 5299: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on 12CE OBG Internal Surfaces for dry

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## SOURCE INSPECTION REPORT

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film thickness (DFT) compliance. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

### Sub-Assemblies (OBG)

Crash Barriers Internal Surfaces (19 Each), NOI Number 5291: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Crash Barriers Internal Surfaces (19 Each) for dry film thickness (DFT) compliance. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panels (6 Each), NOI Number 5294: In accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives recorded the results of adhesion testing. Bike Path Panels (6 Each) x2 readings recorded are 8.19 mPa 50% c and 4.97 mPa 85% c. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Crash Barriers (35 Each), NOI Number 5295: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Crash Barriers (35 Each). Test results recorded x1 soluble salts reading of 10.5 ( $\mu\text{s/cm}$ ) and x3 surface profile readings in the range of 60 to 66  $\mu\text{m}$ . No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Counterweight Man Hole Cover Plates WP-2 (10 Each), NOI Number 5298: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Counterweight Man Hole Cover Plates WP-2 (10 Each) in preparation for blasting operations. No discrepancies noted. ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

### Office

Attend to report writing and photo documentation.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

### Summary of Conversations:

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Cason,Kenneth	Quality Assurance Inspector
<b>Reviewed By:</b>	Miller,Mark	QA Reviewer

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